

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P743869

Luminaire Tested: LD4D20D010-EU4DR1515309024-4LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743869
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D20D010-EU4DR1515309024-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1624.7 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')
CIE Type: Direct

Input Watts (W): 23.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

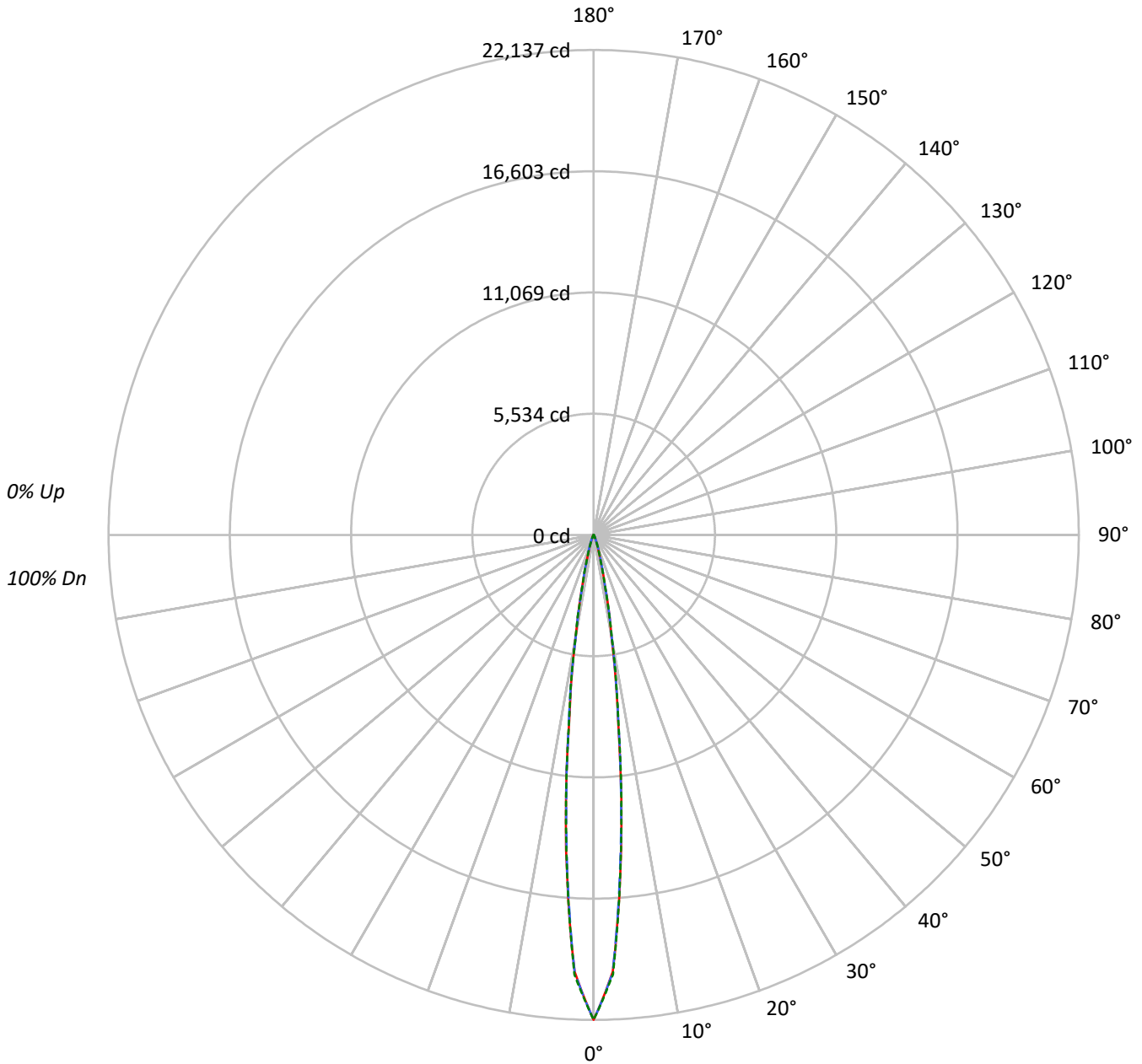


Downlight



TEST NUMBER: P743869
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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98						98													
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96						96													
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94						94													
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93						93													
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92						92													
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90						90													
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89						89													
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88						88													
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87						87													
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86						86													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2490809	2490809	2490809
5°	1463720	1444767	1456190
10°	436847	439908	446645
15°	108667	110777	107364
20°	32508	37647	33204
25°	11459	14599	11607
30°	4208	5541	4283
35°	2113	2382	2041
40°	1328	1463	1328
45°	987	1050	987
50°	779	779	779
55°	654	654	654
60°	527	527	527
65°	400	400	400
70°	344	344	344
75°	212	212	280
80°	150	150	150
85°	75	75	75

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1050 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1053.7	64.9
10°-20°	433.4	26.7
20°-30°	86.1	5.3
30°-40°	21.5	1.3
40°-50°	11.3	0.7
50°-60°	8.4	0.5
60°-70°	5.9	0.4
70°-80°	3.4	0.2
80°-90°	1.0	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1573.3	96.8
0°-40°	1594.8	98.2
0°-60°	1614.4	99.4
0°-90°	1624.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1624.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22137	22137	22137	22137	22137	
5°	14403	14254	14216	14314	14328	1052
15°	1251	1274	1275	1253	1236	429
25°	147	167	187	166	149	77
35°	29	31	33	31	28	20
45°	14	14	15	14	14	11
55°	9	9	9	9	9	8
65°	6	6	6	6	6	6
75°	3	3	3	3	4	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	22136.6	22136.6	22136.6	22136.6	22136.6
2.5°	19968.1	19985.0	19991.5	20011.2	20084.3
5°	14402.6	14254.5	14216.1	14314.5	14328.5
7.5°	8531.5	8561.5	8671.2	8695.5	8607.4
10°	4681.8	4720.3	4714.6	4748.4	4786.8
12.5°	2394.3	2364.3	2355.0	2393.4	2340.0
15°	1251.1	1274.5	1275.4	1252.9	1236.1
17.5°	672.9	700.0	745.0	708.5	652.2
20°	397.3	421.7	460.1	430.1	405.8
22.5°	245.5	265.2	292.4	269.0	249.3
25°	147.1	166.8	187.4	165.9	149.0
27.5°	87.2	104.0	117.1	103.1	86.2
30°	56.2	65.6	74.0	64.7	57.2
32.5°	39.4	43.1	46.9	43.1	39.4
35°	29.1	30.9	32.8	30.9	28.1
37.5°	22.5	24.4	25.3	23.4	21.6
40°	18.7	19.7	20.6	19.7	18.7
42.5°	15.9	16.9	16.9	16.9	15.9
45°	14.1	14.1	15.0	14.1	14.1
47.5°	12.2	12.2	13.1	12.2	12.2
50°	11.2	11.2	11.2	11.2	11.2
52.5°	10.3	10.3	10.3	10.3	10.3
55°	9.4	9.4	9.4	9.4	9.4
57.5°	8.4	8.4	8.4	8.4	8.4
60°	7.5	7.5	7.5	7.5	7.5
62.5°	6.6	6.6	6.6	6.6	6.6
65°	5.6	5.6	5.6	5.6	5.6
67.5°	5.6	5.6	5.6	5.6	5.6
70°	4.7	4.7	4.7	4.7	4.7
72.5°	3.7	3.7	3.7	3.7	3.7
75°	2.8	2.8	2.8	2.8	3.7
77.5°	2.8	2.8	2.8	2.8	2.8
80°	1.9	1.9	1.9	1.9	1.9
82.5°	1.9	1.9	1.9	1.9	1.9
85°	0.9	0.9	0.9	0.9	0.9
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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